

CLAIMS

What is claimed is:

1. An isolated nucleic acid molecule comprising a nucleotide sequence selected from the group consisting:
 - 5 a) SEQ ID NO: 1;
 - b) the complement of SEQ ID NO: 1;
 - c) nucleic acid molecule which is greater than about 90 percent identical to the nucleic acid sequence of SEQ ID NO: 1 or the complement of SEQ ID NO: 1;
 - 10 d) nucleic acid encoding a polypeptide having the amino acid sequence of SEQ ID NO: 3; and
 - e) nucleic acid encoding a polypeptide having an amino acid sequence which is greater than about 93 percent identical to the amino acid sequence of SEQ ID NO: 3.
- 15 2. An isolated nucleic acid molecule according to Claim 1 which is DNA.
3. An isolated nucleic acid molecule encoding a luciferase which hybridizes under high stringency conditions to a nucleotide sequence selected from the group consisting:
 - 20 a) SEQ ID NO: 1; and
 - b) the complement of SEQ ID NO: 1.
4. A method for preparing a polypeptide encoded by an isolated nucleic acid molecule, comprising culturing the recombinant host cell of Claim 1 under conditions suitable for expression of said nucleic acid molecule.
5. An isolated nucleic acid molecule contained in deposit pB1-Pv_{GR}.